

**ABSTRACT**

Systems and methods of generating updated surgical plans are described herein. In one embodiment, a method of generating an updated surgical plan can include generating a three dimensional (3D) model of a bone, generating a surgical plan based on the 3D model, in which the surgical plan can include: locations on the bone upon which to dispose a fixator and settings of struts of the fixator, disposing the fixator on the bone based on the surgical plan, and, based on data associated with the placement of the fixator disposed on the bone, generating an updated surgical plan including updated settings for the struts.